

Vermont Mental Health Performance Indicator Project
Agency of Human Services, Department of Health, Division of Mental Health
Weeks Building, 103 South Main Street, Waterbury, VT 05671-1601

MEMORANDUM

TO: Vermont Mental Health Performance Indicator Project
Advisory Group and Interested Parties

FROM: John Pandiani and Sheila Pomeroy

DATE: September 24, 2004

RE: Vermont State Hospital: Average Daily Census by Length of Stay: 1982 - 2004

The attached graph and table provide an overview of Vermont State Hospital utilization in terms of average daily census for length of stay categories for January 1982 through June 2004. This report complements the VSH Twenty Year Overview that was distributed on September 26, 2003 (<http://www.ddmhs.state.vt.us/docs/pips/2003/pip092603.pdf>).

The information provided includes the average daily census for each of four length of stay categories (less than 30 days, 30-89 days, 90-365 days, and greater than 365 days) for each month in the reporting period. Information for this report is based on analysis of the Vermont State Hospital database. The patient days reported here do not reflect the in-house census of the hospital and are based on the total number of individuals on the VSH caseload, including those on short visit, those receiving medical services in a general hospital, etc.

As you will see, there has been a substantial reduction in the overall average daily census of the Vermont State Hospital during this time period, from about 270 patients in January and February 1982 to about 50 during the first six months of 2004.

The shorter-term populations were much more volatile on a month to month basis. The proportion of patient days accounted for by patients who had been in VSH for less than 30 days varied between 10% and 25% during the first half of this time period and between 20% and 30% during the second half of this time period. The proportion of patient days accounted for by patients who had been in VSH for 30 to 89 days varied between 10% and 20% during the first half of this time period and between 20% and 30% during the second half of this time period. The proportion of patient days accounted for by patients who had been in VSH for 90 to 365 days varied between 20% and 30% during the entire time period, with some notable peaks and valleys.

The Vermont State Hospital database provides a wealth of information on changing patterns of utilization of this institution over the past 20+ years. In conjunction with other databases, this database can provide information on patterns of access to care and treatment outcomes for this institution. We will welcome your suggestions for further analysis of these rich data sources. Please send your questions and suggestions to pip@ddmhs.state.vt.us or call 802-241-2638 to discuss possibilities.

AVERAGE DAILY CENSUS AT VERMONT STATE HOSPITAL
Overall and For Length of Stay Categories
July 1982 through June 2004

Year	Month	Days Since Admission					Percent of Total Days			
		Overall	< 30	30-89	90-365	366+	< 30	30-89	90-365	366+
2004	June	51	13	12	11	15	25%	24%	22%	29%
	May	48	11	11	10	16	23%	23%	21%	33%
	April	51	10	10	15	16	20%	20%	29%	31%
	March	51	11	9	14	17	22%	18%	27%	33%
	February	52	9	13	14	17	17%	25%	27%	33%
2004	January	53	11	11	13	18	21%	21%	25%	34%
2003	December	52	11	11	12	18	21%	21%	23%	35%
	November	51	8	13	12	18	16%	25%	24%	35%
	October	55	13	13	12	18	24%	24%	22%	33%
	September	51	13	11	11	17	25%	22%	22%	33%
	August	52	13	12	11	17	25%	23%	21%	33%
	July	53	15	11	9	18	28%	21%	17%	34%
	June	52	12	10	13	18	23%	19%	25%	35%
	May	50	10	8	15	17	20%	16%	30%	34%
	April	49	8	11	13	17	16%	22%	27%	35%
	March	53	12	9	15	16	23%	17%	28%	30%
	February	50	13	8	13	17	26%	16%	26%	34%
2003	January	47	7	9	13	19	15%	19%	28%	40%
2002	December	51	10	9	15	17	20%	18%	29%	33%
	November	53	12	9	15	16	23%	17%	28%	30%
	October	52	11	10	15	17	21%	19%	29%	33%
	September	59	12	14	16	18	20%	24%	27%	31%
	August	59	13	12	17	17	22%	20%	29%	29%
	July	57	13	7	19	17	23%	12%	33%	30%
	June	56	10	12	20	15	17%	21%	35%	27%
	May	56	10	16	15	16	18%	28%	26%	28%
	April	59	16	10	17	15	27%	18%	30%	25%
	March	57	11	13	18	15	20%	22%	32%	26%
	February	55	11	12	17	15	20%	22%	31%	27%
2002	January	55	11	12	15	15	21%	22%	27%	28%
2001	December	53	12	13	13	16	22%	24%	25%	30%
	November	54	14	13	12	16	25%	23%	22%	30%
	October	52	14	11	11	16	27%	21%	21%	31%
	September	51	12	11	12	15	25%	21%	24%	30%
	August	53	16	14	10	13	30%	27%	18%	25%
	July	48	12	13	10	13	26%	26%	21%	27%
	June	50	13	13	12	12	26%	26%	24%	24%
	May	48	11	11	12	13	23%	23%	25%	27%
	April	44	14	5	12	12	32%	11%	27%	27%
	March	40	7	8	13	12	18%	20%	33%	30%
	February	45	6	12	15	12	13%	27%	33%	27%
2001	January	53	14	13	14	12	26%	25%	26%	23%
2000	December	51	12	13	13	13	24%	25%	25%	25%
	November	52	15	12	13	13	29%	23%	25%	25%
	October	49	13	10	12	13	27%	20%	24%	27%
	September	49	12	12	13	12	24%	24%	27%	24%
	August	52	15	12	12	12	29%	23%	23%	23%
	July	49	13	14	11	12	27%	29%	22%	24%
	June	55	13	15	13	13	24%	27%	24%	24%
	May	51	12	13	13	13	24%	25%	25%	25%
	April	53	17	8	16	13	32%	15%	30%	25%
	March	46	9	10	15	12	20%	22%	33%	26%
	February	55	8	16	19	12	15%	29%	35%	22%
2000	January	61	16	15	18	12	26%	25%	30%	20%
1999	December	58	14	17	14	13	24%	29%	24%	22%
	November	58	16	13	15	14	28%	22%	26%	24%
	October	55	15	12	14	13	27%	22%	25%	24%
	September	60	14	18	16	12	23%	30%	27%	20%
	August	60	17	16	15	12	28%	27%	25%	20%
	July	54	15	15	12	12	28%	28%	22%	22%
	June	48	13	12	10	13	27%	25%	21%	27%
	May	46	14	8	10	13	30%	17%	22%	28%
	April	47	12	9	12	14	26%	19%	26%	30%
	March	50	12	13	12	13	24%	26%	24%	26%
	February	47	12	10	13	13	26%	21%	28%	28%
1999	January	52	15	12	13	11	29%	23%	25%	21%

AVERAGE DAILY CENSUS AT VERMONT STATE HOSPITAL
Overall and For Length of Stay Categories
July 1982 through June 2004

Year	Month	Days Since Admission					Percent of Total Days			
		Overall	< 30	30-89	90-365	366+	< 30	30-89	90-365	366+
1998	December	53	13	15	14	10	25%	28%	26%	19%
	November	53	13	14	16	10	25%	26%	30%	19%
	October	58	16	13	18	10	28%	22%	31%	17%
	September	57	14	15	15	12	25%	26%	26%	21%
	August	54	13	13	16	12	24%	24%	30%	22%
	July	53	16	12	14	11	30%	23%	26%	21%
	June	54	12	18	13	11	22%	33%	24%	20%
	May	62	19	17	14	12	31%	27%	23%	19%
	April	55	20	11	12	11	36%	20%	22%	20%
	March	52	19	11	12	11	37%	21%	23%	21%
	February	52	17	14	11	11	33%	27%	21%	21%
1998	January	58	16	14	15	13	28%	24%	26%	22%
1997	December	53	16	11	13	13	30%	21%	25%	25%
	November	50	14	12	12	13	28%	24%	24%	26%
	October	61	18	12	16	15	30%	20%	26%	25%
	September	63	19	12	16	15	30%	19%	25%	24%
	August	65	22	8	19	16	34%	12%	29%	25%
	July	68	17	15	20	16	25%	22%	29%	24%
	June	75	19	17	23	16	25%	23%	31%	21%
	May	73	18	20	17	18	25%	27%	23%	25%
	April	72	19	21	13	19	26%	29%	18%	26%
	March	65	19	13	15	18	29%	20%	23%	28%
	February	66	15	16	17	18	23%	24%	26%	27%
1997	January	68	18	15	17	18	26%	22%	25%	26%
1996	December	61	15	13	17	16	25%	21%	28%	26%
	November	61	13	11	22	15	21%	18%	36%	25%
	October	66	20	12	18	16	30%	18%	27%	24%
	September	61	15	17	15	15	25%	28%	25%	25%
	August	65	22	14	14	16	34%	22%	22%	25%
	July	60	17	12	17	14	28%	20%	28%	23%
	June	59	13	10	19	16	22%	17%	32%	27%
	May	61	12	11	22	16	20%	18%	36%	26%
	April	65	14	12	24	14	22%	18%	37%	22%
	March	69	18	13	26	13	26%	19%	38%	19%
	February	67	12	17	24	13	18%	25%	36%	19%
1996	January	71	16	18	24	14	23%	25%	34%	20%
1995	December	80	20	18	27	15	25%	23%	34%	19%
	November	76	19	18	24	16	25%	24%	32%	21%
	October	78	21	18	22	18	27%	23%	28%	23%
	September	77	19	19	22	18	25%	25%	29%	23%
	August	76	22	15	21	18	29%	20%	28%	24%
	July	75	16	20	22	17	21%	27%	29%	23%
	June	76	19	22	19	16	25%	29%	25%	21%
	May	72	19	15	23	15	26%	21%	32%	21%
	April	70	17	11	26	16	24%	16%	37%	23%
	March	67	13	12	27	15	19%	18%	40%	22%
	February	65	12	14	25	14	18%	22%	38%	22%
1995	January	76	14	18	28	16	18%	24%	37%	21%
1994	December	80	17	21	26	16	21%	26%	33%	20%
	November	80	23	19	23	15	29%	24%	29%	19%
	October	78	22	18	23	15	28%	23%	29%	19%
	September	76	24	19	17	16	32%	25%	22%	21%
	August	72	20	15	21	16	28%	21%	29%	22%
	July	69	18	13	22	16	26%	19%	32%	23%
	June	68	16	14	23	15	24%	21%	34%	22%
	May	71	19	15	21	15	27%	21%	30%	21%
	April	73	18	15	22	17	25%	21%	30%	23%
	March	80	16	16	24	24	20%	20%	30%	30%
	February	86	20	12	26	28	23%	14%	30%	33%
1994	January	81	9	21	21	31	11%	26%	26%	38%
1993	December	89	19	22	18	31	21%	25%	20%	35%
	November	88	21	20	13	33	24%	23%	15%	38%
	October	86	20	15	17	34	23%	17%	20%	40%
	September	89	20	16	18	35	22%	18%	20%	39%
	August	86	20	15	15	36	23%	17%	17%	42%
	July	82	19	11	16	36	23%	13%	20%	44%
	June	82	14	16	14	38	17%	20%	17%	46%
	May	82	14	15	14	38	17%	18%	17%	46%
	April	84	16	15	16	38	19%	18%	19%	45%
	March	90	17	15	20	37	19%	17%	22%	41%
	February	90	13	22	18	37	14%	24%	20%	41%
1993	January	94	19	17	20	39	20%	18%	21%	41%

AVERAGE DAILY CENSUS AT VERMONT STATE HOSPITAL
Overall and For Length of Stay Categories
July 1982 through June 2004

Year	Month	Days Since Admission					Percent of Total Days			
		Overall	< 30	30-89	90-365	366+	< 30	30-89	90-365	366+
1992	December	92	19	15	21	37	21%	16%	23%	40%
	November	91	15	18	24	35	16%	20%	26%	38%
	October	94	17	17	24	36	18%	18%	26%	38%
	September	91	15	10	26	40	16%	11%	29%	44%
	August	89	12	8	29	40	13%	9%	33%	45%
	July	97	15	15	30	36	15%	15%	31%	37%
	June	100	21	18	24	36	21%	18%	24%	36%
	May	98	19	19	26	34	19%	19%	27%	35%
	April	99	23	15	27	34	23%	15%	27%	34%
	March	96	16	19	25	36	17%	20%	26%	38%
	February	101	22	21	21	36	22%	21%	21%	36%
1992	January	106	22	24	23	37	21%	23%	22%	35%
1991	December	106	24	24	19	38	23%	23%	18%	36%
	November	106	28	23	16	40	26%	22%	15%	38%
	October	101	25	23	13	39	25%	23%	13%	39%
	September	110	29	21	20	40	26%	19%	18%	36%
	August	101	26	15	16	43	26%	15%	16%	43%
	July	95	17	24	12	42	18%	25%	13%	44%
	June	94	19	23	8	44	20%	24%	9%	47%
	May	95	21	15	11	45	22%	16%	12%	47%
	April	99	23	17	12	48	23%	17%	12%	48%
	March	104	22	18	16	48	21%	17%	15%	46%
	February	110	24	16	20	50	22%	15%	18%	45%
1991	January	104	21	16	16	50	20%	15%	15%	48%
1990	December	107	21	17	19	50	20%	16%	18%	47%
	November	117	26	13	27	51	22%	11%	23%	44%
	October	115	22	13	31	49	19%	11%	27%	43%
	September	110	13	18	32	47	12%	16%	29%	43%
	August	118	22	18	30	47	19%	15%	25%	40%
	July	121	23	20	30	48	19%	17%	25%	40%
	June	119	26	19	27	47	22%	16%	23%	39%
	May	115	26	15	25	49	23%	13%	22%	43%
	April	106	20	12	24	50	19%	11%	23%	47%
	March	108	20	11	24	53	19%	10%	22%	49%
	February	106	16	14	23	53	15%	13%	22%	50%
1990	January	114	18	23	18	55	16%	20%	16%	48%
1989	December	115	23	22	16	55	20%	19%	14%	48%
	November	122	26	21	20	55	21%	17%	16%	45%
	October	123	28	20	19	57	23%	16%	15%	46%
	September	116	23	17	19	58	20%	15%	16%	50%
	August	116	20	16	20	60	17%	14%	17%	52%
	July	124	22	19	23	59	18%	15%	19%	48%
	June	125	24	18	22	61	19%	14%	18%	49%
	May	128	23	18	25	62	18%	14%	20%	48%
	April	131	23	14	30	63	18%	11%	23%	48%
	March	136	17	23	32	64	13%	17%	24%	47%
	February	144	22	24	32	66	15%	17%	22%	46%
1989	January	141	25	19	33	65	18%	13%	23%	46%
1988	December	146	25	22	33	66	17%	15%	23%	45%
	November	146	23	24	34	65	16%	16%	23%	45%
	October	151	26	24	36	65	17%	16%	24%	43%
	September	153	31	23	36	64	20%	15%	24%	42%
	August	159	32	24	37	66	20%	15%	23%	42%
	July	163	32	33	32	66	20%	20%	20%	40%
	June	159	29	29	34	64	18%	18%	21%	40%
	May	168	29	26	40	73	17%	15%	24%	43%
	April	179	31	24	44	81	17%	13%	25%	45%
	March	183	27	31	43	82	15%	17%	23%	45%
	February	187	30	36	36	85	16%	19%	19%	45%
1988	January	199	38	38	33	89	19%	19%	17%	45%
1987	December	193	39	31	32	91	20%	16%	17%	47%
	November	196	36	33	36	91	18%	17%	18%	46%
	October	195	34	26	44	91	17%	13%	23%	47%
	September	195	32	25	46	92	16%	13%	24%	47%
	August	195	33	25	46	91	17%	13%	24%	47%
	July	192	28	29	44	91	15%	15%	23%	47%
	June	198	29	37	40	92	15%	19%	20%	46%
	May	194	32	27	41	94	16%	14%	21%	48%
	April	188	29	22	45	92	15%	12%	24%	49%
	March	189	27	24	47	91	14%	13%	25%	48%
	February	189	26	23	48	92	14%	12%	25%	49%
1987	January	188	26	24	49	89	14%	13%	26%	47%

AVERAGE DAILY CENSUS AT VERMONT STATE HOSPITAL
Overall and For Length of Stay Categories
July 1982 through June 2004

Year	Month	Days Since Admission					Percent of Total Days			
		Overall	< 30	30-89	90-365	366+	< 30	30-89	90-365	366+
1986	December	185	27	24	46	88	15%	13%	25%	48%
	November	184	28	24	43	89	15%	13%	23%	48%
	October	176	21	27	43	85	12%	15%	24%	48%
	September	186	28	28	48	82	15%	15%	26%	44%
	August	190	34	28	50	78	18%	15%	26%	41%
	July	187	30	30	48	79	16%	16%	26%	42%
	June	184	31	29	45	79	17%	16%	24%	43%
	May	178	30	24	47	77	17%	13%	26%	43%
	April	181	29	27	49	76	16%	15%	27%	42%
	March	184	23	24	56	81	13%	13%	30%	44%
	February	191	27	26	59	79	14%	14%	31%	41%
	January	195	28	35	54	78	14%	18%	28%	40%
1985	December	196	34	36	51	75	17%	18%	26%	38%
	November	192	32	33	52	75	17%	17%	27%	39%
	October	196	34	38	50	74	17%	19%	26%	38%
	September	198	38	36	52	72	19%	18%	26%	36%
	August	186	30	32	54	70	16%	17%	29%	38%
	July	189	36	28	57	68	19%	15%	30%	36%
	June	182	26	28	62	66	14%	15%	34%	36%
	May	185	31	32	56	66	17%	17%	30%	36%
	April	178	27	35	52	64	15%	20%	29%	36%
	March	176	32	29	50	65	18%	16%	28%	37%
	February	164	26	27	47	64	16%	16%	29%	39%
	January	164	25	27	48	64	15%	16%	29%	39%
1984	December	166	28	28	49	61	17%	17%	30%	37%
	November	163	28	32	42	61	17%	20%	26%	37%
	October	165	32	33	38	62	19%	20%	23%	38%
	September	165	36	27	39	63	22%	16%	24%	38%
	August	158	36	22	36	64	23%	14%	23%	41%
	July	149	26	23	37	63	17%	15%	25%	42%
	June	149	30	22	36	61	20%	15%	24%	41%
	May	151	26	25	38	62	17%	17%	25%	41%
	April	158	32	25	38	63	20%	16%	24%	40%
	March	157	26	29	39	63	17%	18%	25%	40%
	February	157	28	29	38	62	18%	18%	24%	39%
	January	165	30	31	42	62	18%	19%	25%	38%
1983	December	166	34	30	40	62	20%	18%	24%	37%
	November	165	33	27	39	66	20%	16%	24%	40%
	October	165	30	30	36	69	18%	18%	22%	42%
	September	168	31	30	36	71	18%	18%	21%	42%
	August	172	39	27	37	69	23%	16%	22%	40%
	July	166	32	27	39	68	19%	16%	23%	41%
	June	168	31	30	39	68	18%	18%	23%	40%
	May	175	33	32	40	70	19%	18%	23%	40%
	April	170	28	31	37	74	16%	18%	22%	44%
	March	176	30	29	43	74	17%	16%	24%	42%
	February	176	35	22	45	74	20%	13%	26%	42%
	January	169	21	29	40	79	12%	17%	24%	47%
1982	December	187	24	31	48	84	13%	17%	26%	45%
	November	205	33	37	45	90	16%	18%	22%	44%
	October	201	33	37	37	94	16%	18%	18%	47%
	September	215	35	28	41	111	16%	13%	19%	52%
	August	247	37	27	45	138	15%	11%	18%	56%
	July	255	33	29	43	150	13%	11%	17%	59%
	June	251	35	26	41	140	14%	10%	16%	56%
	May	256	39	23	46	148	15%	9%	18%	58%
	April	249	28	21	52	148	11%	8%	21%	59%
	March	260	30	25	55	150	12%	10%	21%	58%
	February	270	35	30	55	150	13%	11%	20%	56%
	January	269	34	33	49	153	13%	12%	18%	57%

**Vermont State Hospital Average Daily Census by Length of Stay:
July 1985 through June 2004**

